

8 signal and in said second communication mode using a  
9 radiofrequency signal, wherein said first and second devices  
10 transceive a plurality of messages therebetween in said second  
11 communication mode at least when the first device has a remote  
12 location with respect to a range of the second device in the  
13 first communication mode; and

14 wherein, prior to transceiving a security message  
15 therebetween, said first and second devices switch transceiving  
16 to said first communication mode, and transmit said security  
17 message in said first communication mode.

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1 3. The communications system according to claim 1, wherein  
2 said first and second devices, upon completion of the  
3 transceiving of said security message, switch transceiving  
4 therebetween to said second communication mode.

1 4. The communications system according to claim 1, wherein  
2 said security message comprises a plurality of encryption keys  
3 for the subsequent encryption of a plurality of said messages  
4 transceived in said second communication mode.

1 5. The communications system according to claim 1, wherein  
2 upon said second device switching said transceiving to said first  
3 communication mode, said second device transmits an infrared  
4 request message to said first device.

1       6. The communication system according to claim 5, wherein  
2       said first device, upon receipt of said infrared request message,  
3       transmits said security message to said second device.

1       7. The communication system according to claim 6, wherein  
2       said security message comprises a plurality of encryption keys  
3       for the subsequent encryption of a plurality of said messages  
4       transceived in said second communication mode.

1       8. The communication system according to claim 1, wherein  
2       said transceiving means within said first device comprises:

3               infrared transceiving means for transceiving infrared  
4       signals with said second device in said first communications  
5       mode;

6               radiofrequency transceiving means for transceiving  
7       radiofrequency signals with said second device in said second  
8       communications mode; and

9               switching means for switching between said infrared and  
10      radiofrequency transceiving means.

1       9. The communication system according to claim 8, wherein  
2       said infrared transceiving means comprises:

3               a photodetector for receiving said infrared signals  
4       from said second device; and

5               an infrared emitter for transmitting said infrared  
6       signals to said second device.

1       10. The communication system according to claim 1, wherein  
2       said second device comprises a transceiving means therein, said  
3       transceiving means within said second device comprising:

4               infrared transceiving means for transceiving said  
5       infrared signals with said first device in said first  
6       communications mode;

7               radiofrequency transceiving means for transceiving said  
8       radiofrequency signals with said first device in said second  
9       communications mode; and

10               switching means for switching between said infrared and  
11       radiofrequency transceiving means.

1       11. The communication system according to claim 10, wherein  
2       said infrared transceiving means within said second device  
3       comprises:

4               a photodetector for receiving said infrared signals  
5       from said first device; and

6               an infrared emitter for transmitting said infrared  
7       signals to said first device.

1       12. The communication system according to claim 1, wherein  
2       said communication system is a cordless system.

1       13. The communication system according to claim 1, wherein  
2       said first and second devices are each selected from the group

3 consisting of:

4 mobile telephones, home base stations, SIM cards,  
5 headsets, computers, printers, plotters, projectors, facsimile  
6 devices, pagers, data organizers, computer terminals, scanners,  
7 microphones, PC cards, televisions, radios, stereos, VCRs, light  
8 devices, dimmers, thermostats, doors, refrigerators, freezers,  
9 ovens, washers, dryers, answering machines, home alarms, car  
10 alarms, and other peripheral and portable devices.

1 14. The communication system according to claim 1, wherein  
2 said first and second devices communicate on a radiofrequency  
3 band ranging from about 2.4 GHz to about 2.483 GHz.

1 15. The communication system according to claim 14, wherein  
2 said band is at about 2.45 GHz.

1 27. (Twice Amended) A transceiving device for secure  
2 wireless communications in a communications system, said device  
3 comprising:

4 radiofrequency transceiving means for transceiving a  
5 plurality of radiofrequency transmissions within said  
6 communications system;

7 infrared transceiving means for transceiving a  
8 plurality of infrared transmissions within said communications  
9 system, wherein said transceiving device switches transceiving  
10 from said radiofrequency transceiving means to said infrared

11 transceiving means prior to the transmission of an infrared  
12 security message within said communications system; and  
13 wherein at least one of the plurality of radiofrequency  
14 transmissions occurs when the transceiving device has a remote  
15 location with respect to an infrared transceiving station in the  
16 communications system.

1 28. The transceiving device according to claim 27, wherein  
2 said infrared transceiving means comprises:

3 a photodetector for receiving said infrared  
4 transmissions; and

5 an infrared emitter for transmitting said infrared  
6 transmissions.

1 29. The transceiving device according to claim 28, wherein  
2 said infrared emitter comprises a light-emitting diode.

1 31. The transceiving device according to claim 27, wherein,  
2 after the transmission of said infrared security message, said  
3 transceiving device switches transceiving to said radiofrequency  
4 transceiving means.

1       32. The transceiving device according to claim 27, wherein  
2       said infrared security transmission comprises a plurality of  
3       encryption keys for the subsequent encryption of a plurality of  
4       said radiofrequency transmissions between said transceiving  
5       device and said communications system.

1       33. The transceiving device according to claim 27, wherein  
2       said first and second devices are each selected from the group  
3       consisting of:

4               mobile telephones, home base stations, SIM cards,  
5       headsets, computers, printers, plotters, projectors, facsimile  
6       devices, pagers, data organizers, computer terminals, scanners,  
7       microphones, PC cards, televisions, radios, stereos, VCRs, light  
8       devices, dimmers, thermostats, doors, refrigerators, freezers,  
9       ovens, washers, dryers, answering machines, home alarms, car  
10      alarms, and other peripheral and portable devices.

1       34. The transceiving device according to claim 27, wherein  
2       said first and second devices communicate on a radiofrequency  
3       band ranging from about 2.4 GHz to about 2.483 GHz.

1       35. The transceiving device according to claim 34, wherein  
2       said band is at about 2.45 GHz.